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NOTICE OF ALLOWANCE AND FEE(S) DUE

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TORYS LLP 79 WELLINGTON STREET WEST, SUITE 3000 BOX 270, TD CENTRE TORONTO, ON M5K 1N2 CANADA

EXAMINER				
MUI, CHRISTINE T				
ART UNIT	PAPER NUMBER			

1797

DATE MAILED: 07/10/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/823,690	04/14/2004	Steven J. Soldin	31603-2055	5374

TITLE OF INVENTION: THYROID HORMONE ANALYSIS BY MASS SPECTROMETRY

07/10/2009

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	10/13/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE

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TORONTO, ON CANADA	N M3K 1N2						(Depositor's name)
							(Signature)
			L				(Date)
APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	t	ATTC	PRNEY DOCKET NO.	CONFIRMATION NO.
10/823,690	04/14/2004		Steven J. Soldin			31603-2055	5374
TITLE OF INVENTION	N: THYROID HORMON	E ANALYSIS BY MAS	SS SPECTROMETRY				
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nonprovisional	NO	\$1510	\$300	\$0		\$1810	10/13/2009
EXAM	IINER	ART UNIT	CLASS-SUBCLASS	_			
MUI, CHE	RISTINE T	1797	436-173000				
1. Change of correspondence address or indication of "Fee Address" (37 CFR 1.363). Change of correspondence address (or Change of Correspondence Address form PTO/SB/122) attached. The Address indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required. 2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.							
PLEASE NOTE: Un	less an assignee is ident th in 37 CFR 3.11. Comp	ified below, no assigne	THE PATENT (print or ty e data will appear on the p OT a substitute for filing an (B) RESIDENCE: (CIT	patent. If an assign assignment. Y and STATE OR (COUNT	TRY)	
Please check the appropr	riate assignee category or	categories (will not be	printed on the patent):	Individual 🖵 C	orporat	ion or other private gro	up entity 🔲 Government
4a. The following fee(s) are submitted: ☐ Issue Fee ☐ Publication Fee (No small entity discount permitted) ☐ Advance Order - # of Copies			4b. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) A check is enclosed. Payment by credit card. Form PTO-2038 is attached. The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).				
5. Change in Entity Sta	,	,		111			
••	ns SMALL ENTITY state		b. Applicant is no lorted from anyone other than				
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Authorized Signature				Date			
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TORYS LLP			MUI, CHR	ISTINE T	
79 WELLINGTON STREET WEST, SUITE 3000			ART UNIT	PAPER NUMBER	
BOX 270, TD CEN			1797		
TORONTO, ON M5K 1N2					
CANADA			DATE MAILED: 07/10/200	9	

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 827 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 827 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

	Application No.	Applicant(s)		
	10/823,690	SOLDIN, STEVEN J		
Notice of Allowability	Examiner	Art Unit		
	CHRISTINE T. MUI	1797		
The MAILING DATE of this communication appea. All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313 1. ☑ This communication is responsive to remarks filed on 15 D	(OR REMAINS) CLOSED in or other appropriate commu IGHTS. This application is s and MPEP 1308.	nthis application. If not included inication will be mailed in due c	d ourse. THIS	
2. ☑ The allowed claim(s) is/are <u>1-8,10-27 and 58-65</u> .				
 3. ☐ Acknowledgment is made of a claim for foreign priority ur a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 2. ☐ Certified copies of the priority documents have 3. ☐ Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). 	been received. been received in Applicatio	n No	on from the	
* Certified copies not received:				
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 4. A SUBSTITUTE OATH OR DECLARATION must be subm	IENT of this application.			
INFORMAL PATENT APPLICATION (PTO-152) which give				
5. CORRECTED DRAWINGS (as "replacement sheets") mus	st be submitted.			
(a) ☐ including changes required by the Notice of Draftspers		v (PTO-948) attached		
1) 🔲 hereto or 2) 🔲 to Paper No./Mail Date				
(b) ☐ including changes required by the attached Examiner's Paper No./Mail Date			1) -6	
Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in t			раск) от	
6. DEPOSIT OF and/or INFORMATION about the depo attached Examiner's comment regarding REQUIREMENT			ote the	
Attachment(s)				
1. Notice of References Cited (PTO-892)		formal Patent Application		
2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)	Paper No./	ummary (PTO-413), Mail Date		
 Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date <u>See Continuation Sheet</u> 	7. ⊠ Examiner's	Amendment/Comment		
 Examiner's Comment Regarding Requirement for Deposit Examiner's Statement of Reasons for Allowaterial 				
	9.	<u>-</u> :		

Continuation of Attachment(s) 3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date: 15 December 2008; 24 June 2009.

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with MARYANNE ARNOLDO on 24 June 2009 and 26 June 2009.

The application has been amended as follows:

Claims 28-57 have been cancelled.

In claim 1, line 2, the instance where it reads 'or suspected of comprising' has been deleted.

In claim 1, line 4, the instance where it reads 'or suspected of comprising' has been deleted.

In claim 1, the phrase 'wherein the analysis does not involve an extraction step comprising evaporation and redissolving the extracted thyroid hormone, and the analysis is done in less than an hour' has been deleted.

In claim 3, line 2, the instance where it reads 'or suspected of comprising' has been deleted.

In claim 27, line 2, the instance where it reads 'or suspected of comprising' has been deleted.

In claim 58, line 2, the instance where it reads 'or suspected of comprising' has been deleted.

In claim 58, line 5, the instance where it reads 'or suspected of comprising' has been deleted.

In claim 60, line 2, the instance where it reads 'or suspected of comprising' has been deleted.

In claim 60, lines 4-5, the instance where it reads 'or suspected of comprising' has been deleted.

In claim 60, line 7, the instance where it reads 'or suspected of comprising' has been deleted.

In claim 60, the phrase 'wherein the analysis does not involve an extraction step comprising evaporation and redissolving the extracted thyroid hormone, and the analysis is done in less than an hour' has been deleted.

In claim 62, line 2, the instance where it reads 'or suspected of comprising' has been deleted.

In claim 62, the phrase 'wherein the analysis does not involve an extraction step comprising evaporation and redissolving the extracted thyroid hormone, and the analysis is done in less than an hour' has been deleted.

In claim 64, line 1, the instance where it reads 'or 28' has been deleted. In claim 65, line 1, the instance where it reads 'or 28' has been deleted.

2. The following is an examiner's statement of reasons for allowance: None of the cited prior art of record teaches a method, a system, or a kit of a sample containing one

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or more thyroid hormones, where the sample is deproteinated, separated and analyzed in a mass spectrometer.

3. The closest prior art as cited in the prior office action to DeBrabandere discloses a method of determination of thyroxine in serum. While this method discloses determining thyroxine in a sample, the reference does not fairly teach or suggest a method of extraction outside of the online liquid extraction of the sample. Furthermore, DeBrabandere neither teaches nor suggests a system nor a kit that is disclosed as being used for deproteinating, separating and analyzing a sample in a mass spectrometer. The system that is claimed in the instant application for deproteinating samples and internal standards, and analyzing the hormones is not found in the prior art.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to CHRISTINE T. MUI whose telephone number is (571)270-3243. The examiner can normally be reached on Monday-Thursday 7-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Walter Griffin can be reached on (571) 272-1447. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

CTM

/Walter D. Griffin/ Supervisory Patent Examiner, Art Unit 1797